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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/686,299	10/11/2000	John D. Frazier	NCRC-0015-US (9170)	5122

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EXAMINER

JACOBS, LASHONDA T

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 11/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/686,299

Applicant(s)

FRAZIER ET AL.

Examiner

LaShonda T. Jacobs

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on October 11, 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 . 6) ☐ Other: \_\_\_\_\_

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Eberman et al (hereinafter, "Eberman", 6,173,287).

As per claim 1, Eberman discloses a system comprising:

- an interface to receive a request from a client system for information in a database system (col. 8, lines 18-32); and
- a controller to format metadata associated with the requested information into a format for display in the client system (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64),
- the controller further to map plural data types in the database system to corresponding file types to enable presentation in the client system of an object having an associated data type retrieved from the database system (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 2, Eberman discloses:

- wherein the controller comprises a network communications service to receive the request from the client system (col. 4, lines 44-65).

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As per claim 3, Eberman discloses:

- wherein the network communications service comprises a Hypertext Transport Protocol service (col. 4, lines 44-65).

As per claim 4, Eberman discloses:

- the controller to format the metadata into a predetermined format displayable by a browser (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 5, Eberman discloses:

- wherein the predetermined format comprises a format selected from the group consisting of a Hypertext Markup Language format, an Extensible Markup Language format, and a Wireless Markup Language format (col. 8, lines 18-32).

As per claim 6, Eberman discloses:

- wherein the database system comprises an object relational database system (col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 7, Eberman discloses:

- wherein the plural data types comprise two or more of the following: audio data, video data, multimedia data, image data, and geospatial data (col. 4, lines 66-67 and col. 5, lines 41).

As per claim 8, Eberman further discloses:

- a storage element containing an object retrieved from the database system, the controller to communicate data in the object as a stream to the client system (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 9, Eberman discloses:

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- wherein the controller communicates portions of the object to the client system in the stream so that the entire object need not be communicated to the client system for storage (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 10, Eberman discloses:

- wherein the metadata comprises a hyperlink.(col. 5, lines 16-55 and col. 8, lines 18-59).

As per claim 11, Eberman discloses:

- the interface to receive a second request indicating selection of the hyperlink, the hyperlink corresponding to the object in the database system (col. 5, lines 16-55 and col. 8, lines 18-59).

As per claim 12, Eberman discloses:

- the controller to determine a data type of the object and to map the data type to a corresponding file type (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 13, Eberman discloses:

- wherein the metadata contains a description of plural objects in the database system (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 14, Eberman discloses:

- wherein the description comprises hyperlinks corresponding to the plural objects (col. 5, lines 16-55, col. 8, lines 18-59, col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 15, Eberman discloses a method of accessing an object relational database, comprising:

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- receiving metadata relating to requested information from the object relational database (col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64);
- displaying at least a portion of the metadata as a hyperlink (col. 5, lines 16-55 and col. 8, lines 18-59);
- in response to selection of the hyperlink, sending a request for an object in the object relational database, the object containing information associated with the selected metadata portion (col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64); and
- associating the object with one of plural presentation routines to present the information in the object (col. 5, lines 16-55, col. 8, lines 18-59, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 16, Eberman further discloses:

- displaying the metadata in a browser screen (col. 8, lines 18-59).

As per claim 17, Eberman further discloses:

- associating plural data types stored in the object relational database with corresponding plural file types (col. 5, lines 16-55, col. 8, lines 18-59, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 18, Eberman discloses:

- wherein associating the object with one of plural presentation routines is based on the file type of the object (col. 5, lines 16-55, col. 8, lines 18-59, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 19, Eberman further discloses:

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- invoking the one presentation routine as a plug-in to a browser (col. 8, lines 18-67 and col. 7, lines 1-11).

As per claim 20, Eberman discloses an article comprising at least one storage medium containing instructions that when executed cause a first system to:

- receive a request from a client system for data in a database (col. 8, lines 18-64)
- retrieve the data from the database type (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64); and
- determine a data type of the retrieved data and map the data type to a file type presentable by the client system type (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 21, Eberman discloses wherein the instructions when executed cause the first system to:

- retrieve metadata describing the requested data (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64); and
- format the metadata according to a predetermined format displayable by the client system (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 22, Eberman discloses:

- wherein the predetermined format comprises one of a Hypertext Markup Language format, an Extensible Markup Language format, and a Wireless Markup Language format (col. 8, lines 18-32).

As per claim 23, Eberman discloses:

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- wherein the metadata comprises a hyperlink, the instructions when executed causing the first system to receive activation of the hyperlink and to retrieve the data in response to the activation of the hyperlink (col. 5, lines 16-55 and col. 8, lines 18-59, col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 24, Eberman discloses:

- wherein the instructions when executed cause the first system to retrieve an object from an object relational database (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

As per claim 25, Eberman discloses:

- wherein the database stores rules pertaining to presentation of the data in the client system, the instructions when executed causing the first system to access the rules to map the data type to the file type (col. 11, lines 28-42, col. 15, lines 46-67, col. 16, lines 1-10 and lines 30-64).

3. Claims 26-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Andersen.

As per claim 26, Andersen discloses a database system comprising:

- one or more storage devices containing an applet and a document (abstract; col. 2, lines 1-36 and col. 3, lines 14-35);
- an interface to a network (abstract, col. 2, lines 1-36, col. 3, lines 14-35 and col. 4, lines 31-59); and
- a controller to communicate the document to a client device, the document containing data defining a page displayable in a browser screen, and the applet containing



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instructions that when executed provide an interactive portion of the browser screen  
(abstract, col. 2, lines 1-36, col. 3, lines 14-35 and col. 4, lines 31-59).

As per claim 27, Andersen discloses:

- wherein the applet comprises a query applet containing instructions that when executed provide an interactive query portion of the browser screen (abstract, col. 2, lines 1-36, col. 3, lines 14-35, 4, lines 31-59, col. 5, lines 9-67 and col. 6, lines 1-67).

As per claim 28, Andersen discloses:

- wherein the query applet comprises instructions that when executed receive user-entered queries (abstract, col. 2, lines 1-36, col. 3, lines 14-35, 4, lines 31-59, col. 5, lines 9-67 and col. 6, lines 1-67).

As per claim 29, Andersen discloses:

- wherein the query applet comprises instructions that when executed receive Structured Query Language queries (col. 3, lines 51-67 and col. 4, lines 1-30).

### *Conclusion*

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,401,094 to Stemp et al

U.S. Pat. No. 5,870,549 to Bobo, II

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaShonda T. Jacobs whose telephone number is 703-305-7494.

The examiner can normally be reached on 8:30 AM - 5:00 PM.


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 703-308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

LaShonda T. Jacobs  
Examiner  
Art Unit 2157

ltj  
November 15, 2003

  
ARIO ETIENNE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100